**1. Define an Object**

We define **Payments**, **Products**, **Imports,Customer,suppliers ,Staffs, Invoices**

**2**.**Define Attributes**

Payments(payment\_id,amount,currency,payment\_date,payment\_method,status,payer\_id,recipient\_id,payer\_name,recipient\_name,transaction\_id,description,reference\_number,tax\_details,fees)

Products(productID, name,description,category,price,discountPrice,stockQuantity,stockStatus,weight,dimensions,images,brand,rating,reviews,tags,releaseDate,variants,supplier,taxRate,fees,barcode,UPC,status)

Imports(

import\_id,source,destination,import\_date,status,items,importer,batch\_number,import\_cost,customs\_duties,customs\_status,transport\_mode,transport\_details,documents,priority,quantity,total\_weight,total\_dimensions,currency,remarks,verification\_status,error\_count,error\_log,completion\_date

)

Customers(id, name, dob, address, email)

Staffs(Id,Name,Sex,dob,Address,Current place,email,Workhour,Phone,Salary,)

Suppliers(supplier\_id,supplier\_name,contact\_person,address,email,phone,website)

Invoices(invoice\_number,invoice\_date,due\_date,seller\_name,seller\_contact,seller\_address,seller\_tax\_id,buyer\_name,buyer\_contact,buyer\_address,buyer\_account\_number,items,subtotal,tax,discount,total,payment\_terms,payment\_methods,bank\_details,currency,notes,reference\_number,legal\_info,qr\_code,attachments)

**3**. **Define Classes of Objects**

Class Payment{

payment\_id,amount,currency,payment\_date,payment\_method,status,payer\_id,recipient\_id,payer\_name,recipient\_name,transaction\_id,description,reference\_number,tax\_details,fees,

set\_payment\_id(),set\_amount(),set\_currency(),set\_payment\_date(),set\_payment\_method(),set\_status(),set\_payer\_id(),set\_recipient\_id(),set\_payer\_name(),set\_recipient\_name(),set\_transaction\_id(),set\_description(),set\_reference\_number(),set\_tax\_details(),set\_fees(),

get\_payment\_id(),get\_amount(),get\_currency(),get\_payment\_date(),get\_payment\_method(),get\_status(),get\_payer\_id(),get\_recipient\_id(),get\_payer\_name(),get\_recipient\_name(),get\_transaction\_id(),get\_description(),get\_reference\_number(),get\_tax\_details(),get\_fees(),

Payment(),Payment(...)

}

Class Products{

productID, name,description,category,price,discountPrice,stockQuantity,stockStatus,weight,dimensions,images,brand,rating,reviews,tags,releaseDate,variants,supplier,taxRate,fees,barcode,UPC,status,

get\_productID(), get\_name(),get\_description(),get\_category(),get\_price(),get\_discountPrice(),get\_stockQuantity(),get\_stockStatus(),get\_weight(),get\_dimensions(),get\_images(),get\_brand(),get\_rating(),get\_reviews(),get\_tags(),get\_releaseDate(),get\_variants(),get\_supplier(),get\_taxRate(),get\_fees(),get\_barcode(),get\_UPC(),get\_status(),

set\_productID(), set\_name(),set\_description(),set\_category(),set\_price(),set\_discountPrice(),set\_stockQuantity(),set\_stockStatus(),set\_weight(),set\_dimensions(),set\_images(),set\_brand(),set\_rating(),set\_reviews(),set\_tags(),set\_releaseDate(),set\_variants(),set\_supplier(),set\_taxRate(),set\_fees(),set\_barcode(),set\_UPC(),set\_status(),

Product(), Products(...)

}

Class Imports{

Import\_id,source,destination,import\_date,status,items,importer,batch\_number,import\_cost,customs\_duties,customs\_status,transport\_mode,transport\_details,documents,priority,quantity,total\_weight,total\_dimensions,currency,remarks,verification\_status,error\_count,error\_log,completion\_date,

get\_import\_id(),get\_source(),get\_destination(),get\_import\_date(),get\_status(),get\_items(),get\_importer(),get\_batch\_number(),get\_import\_cost(),get\_customs\_duties(),get\_customs\_status(),get\_transport\_mode(),get\_transport\_details(),get\_documents(),get\_priority(),get\_quantity(),get\_total\_weight(),get\_total\_dimensions(),get\_currency(),get\_remarks(),get\_verification\_status(),get\_error\_ count(),get\_error\_log(),get\_completion\_date(),

set\_import\_id(),set\_source(),set\_destination(),set\_import\_date(),set\_status(),set\_items(),set\_importer(),set\_batch\_number(),set\_import\_cost(),set\_customs\_duties(),set\_customs\_status(),set\_transport\_mode(),set\_transport\_details(),set\_documents(),set\_priority(),set\_quantity(),set\_total\_weight(),set\_total\_dimensions(),set\_currency(),set\_remarks(),set\_verification\_status(),set\_error\_count(),set\_error\_log(),set\_completion\_date(),

Imports(), Imports(...)}

Class Customers{id, name, dob, address, email,

Customer (…), setID (…), getID (), setName (…),

getName (), setPhone (…), getPhone (), setEmail (…),

getEmail (), setAddress (…), getAddress ()}

Class Staffs{id,name,sex,dob,address,email,workhour,current place,phone,salary,Staffs(),Staffs(----),setId(),getId(),

setName(),getName(),setSex(),getSex(),setDob(),getDob(),setAddress(),getAddress(),setCurrent place(),getCurrent place(),setEmail(),getEmail(),setWorkhour(),getWorkhour(),setPhone(),getPhone(),setSalary(),getSalary(),

Staffs(),Staffs(...)

};

Class Invoices{

Invoice\_number,invoice\_date,due\_date,seller\_name,seller\_contact,seller\_address,seller\_tax\_id,buyer\_name,buyer\_contact,buyer\_address,buyer\_account\_number,items,subtotal,tax,discount,total,payment\_terms,payment\_methods,bank\_details,currency,notes,reference\_number,legal\_info,qr\_code,attachments,

set\_invoice\_number(),set\_invoice\_date(),set\_due\_date(),set\_seller\_name(),set\_seller\_contact(),set\_seller\_address(),set\_seller\_tax\_id(),set\_buyer\_name(),set\_buyer\_contact(),set\_buyer\_address(),set\_buyer\_account\_number(),set\_items(),set\_subtotal(),set\_tax(),set\_discount(),set\_total(),set\_payment\_terms(),set\_payment\_methods(),set\_bank\_details(),set\_currency(),set\_notes(),set\_reference\_number(),set\_legal\_info(),set\_qr\_code(),set\_attachments(),

get\_invoice\_number(),get\_invoice\_date(),get\_due\_date(),get\_seller\_name(),get\_seller\_contact(),get\_seller\_address(),get\_seller\_tax\_id(),get\_buyer\_name(),get\_buyer\_contact(),get\_buyer\_address(),get\_buyer\_account\_number(),get\_items(),get\_subtotal(),get\_tax(),get\_discount(),get\_total(),get\_payment\_terms(),get\_payment\_methods(),get\_bank\_details(),get\_currency(),get\_notes(),get\_reference\_number(),get\_legal\_info(),get\_qr\_code(),get\_attachments()

Invoices(),Invoices(...)

}

Class Suppliers{

supplier\_id,supplier\_name,contact\_person,address,email,phone,website,

set\_supplier\_id(),set\_supplier\_name(),set\_contact\_person(),set\_address(),set\_email(),set\_phone(),set\_website(),

get\_supplier\_id(),get\_supplier\_name(),get\_contact\_person(),get\_address(),get\_email(),get\_phone(),get\_website(),

Suppliers(), Suppliers(...)

}

**4.Define Classes Inheritance**

Class Persons{id, name, dob, address, email, Persons(), Persons(……), setID(), getID(),…………..}; ជា class មេ

Class Staffs{salary,workhour,current place,staffs(),staffs(----)setSalary(),getSalary(),setWorkhour(),getWorkhour(),setCurrentPlace(),getCurrentPlace()} ជា Class កូនរបស់ Persons

Class Customers{ Customers(), Customers(…)}; ជា Class កូនរបស់ Persons

Class Process {

id,

dob,

staffID,

SetID(),

GetID(),

Setdop(),;

Getdop(),

Setstaffid(),

Getstaffid()

}; ជា class មេ

Class Import {

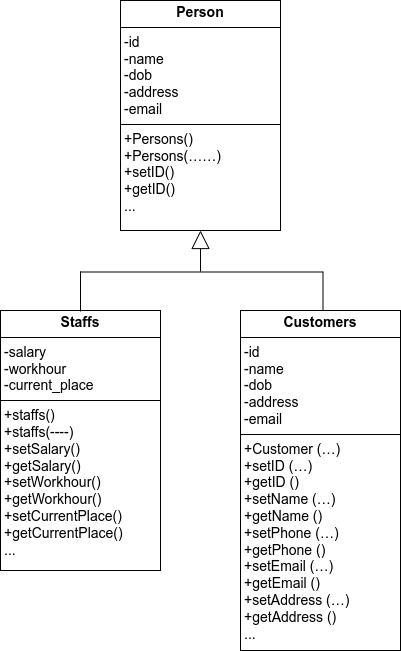
supplier\_id,

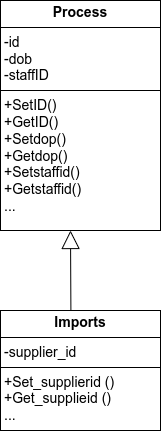
Set\_supplierid (),;

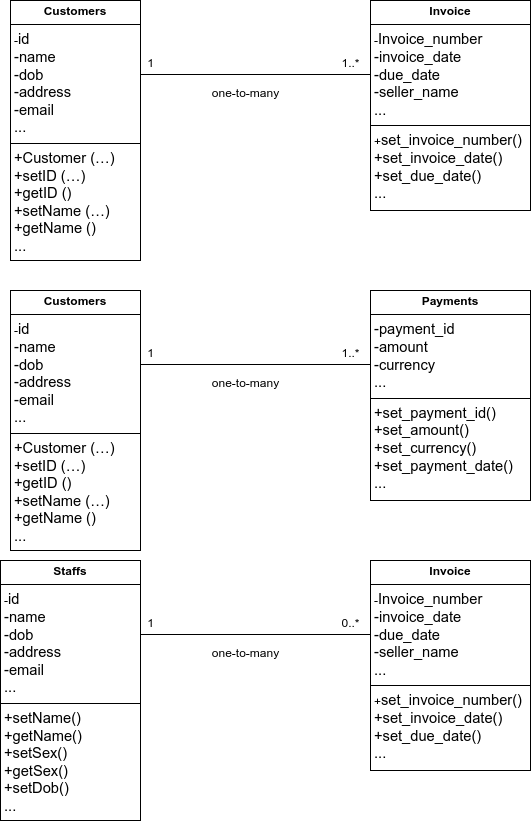
Get\_supplieid (),

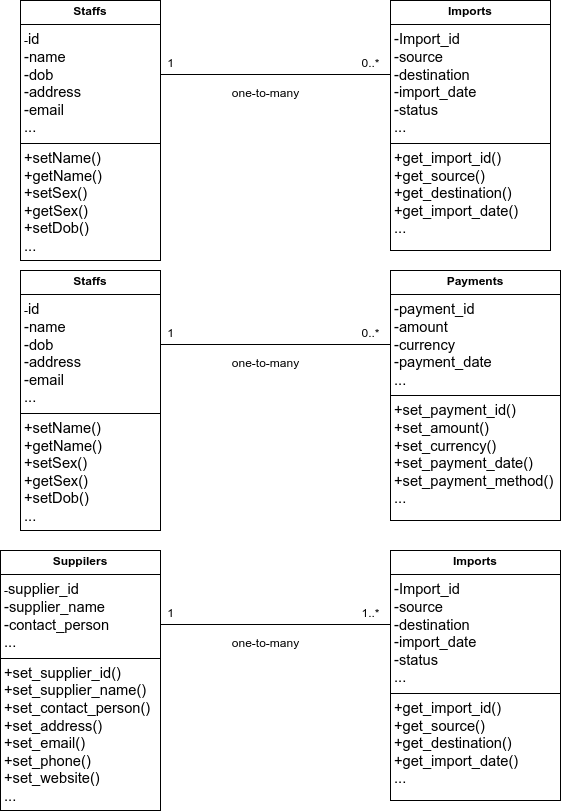
}; ជា Class កូនរបស់ Imports

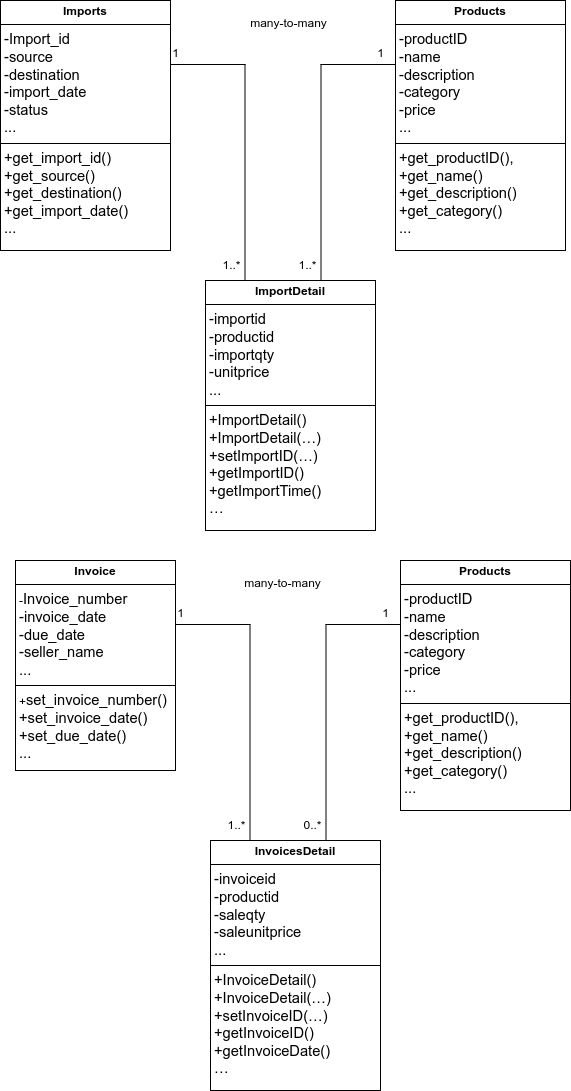
**5.Define Class Diagram (Relationship)**

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**6. Define Object Interface**

* FormCustomer ទាក់ទង Customer,Person
* FormStaff ទាក់ទង Staff, Person
* FormSupplier ទាក់ទង Supplier
* FormProduct ទាក់ទង Product
* FormImport ទាក់ទង Import, Process, Supplier, Staff, Person, ImportDetail,Product
* FormInvoice ទាក់ទង Invoice, Process, Customer, Staff, Person, InvoiceDetail, Product
* FormPayment ទាក់ទង Payment, Process, Customer, Staff, Person